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S/N 09/387,164

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Yong-Jun Hu

Examiner: Sikha Roy

Serial No.: 09/387,164

Group Art Unit: 2879

Filed: August 31, 1999

Docket: 303.607US1

Title: STRUCTURES AND METHODS TO ENHANCE FIELD EMISSION IN FIELD  
EMITTER DEVICES

**AMENDMENT AND RESPONSE UNDER 37 CFR § 1.111**

Commissioner for Patents  
Washington, D.C. 20231

Applicant has reviewed the Office Action mailed on October 24, 2001. Please amend the  
above-identified patent application as follows.

**IN THE TITLE**

Please delete the title and replace with the new title --FIELD EMITTER DEVICES  
WITH EMITTERS HAVING IMPLANTED LAYER--.

**IN THE CLAIMS**

Please substitute the claim set in the appendix entitled Clean Version of Pending Claims  
for the previously pending claim set. The substitute claim set is intended to reflect cancellation  
of claims 37-85, and amendment of previously pending claims 1 and 13-24. The specific  
amendments to individual claims are detailed in the following marked up set of claims.

Please cancel claims 37-85.

Please amend claims 13-24 as follows.

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(Once Amended) A field emitter display device, comprising:

at least one emitter having [a] an ion implantation layer that releases electrons at a  
predetermined energy level, wherein the layer enhances the releasing of electrons and the layer  
limits the outgassing so as to inhibit degradation of the at least one emitter.

14. (Once Amended) The device of claim 13, wherein the ion implantation layer is  
embedded in the surface of the at least one emitter.